# RCA TECHNICAL PAPERS

# (1947)

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# RCA TECHNICAL PAPERS

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## Volume II (b)

RCA REVIEW has listed in this Index substantially all published English-language technical papers on subjects in the radio, electronics and related fields, the author or a coauthor of which was associated with the Radio Corporation of America (including its various divisions and subsidiary companies) at the time of the paper's preparation or at the time the work described in the paper was performed.

The chronological index is followed by an alphabetical listing of papers by title, a section arranged alphabetically by authors, and a subject classification section.

This Index [Volume II(b)] supplements "RCA TECHNICAL PAPERS (1919-1945)—INDEX—Volume I and (1946)—INDEX—Volume II(a)". It is planned to continue the publication of these yearly Indexes as sub-volumes, consolidating them under one cover, at the end of the five-year period, as "RCA TECHNICAL PAPERS (1946-1950) —INDEX—Volume II." Subsequent volumes will cover successive five-year periods.

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Volume II(b) returns to the numbering system used in Volume I, setting aside sufficient numbers to permit changeover of the item numbers in Volume II(a) when the five-year (1946-1950) volume is printed.

* * *

Errata sheets for Volume I and Volume II(a) are contained in this volume. They should be removed and inserted in the other volumes as indicated. It is suggested that only the new item number—e.g., "1254a or 61a"—be entered as corrections in the text, unless necessary to add an author's name. Any such number will indicate automatically that the item can be found on the errata sheet.

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*The Manager,* RCA REVIEW

RCA Laboratories,
Princeton, N. J.
January 16, 1948

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# ABBREVIATIONS

***(Note—Titles of periodicals not listed below, as well as book titles, are not abbreviated.)***

*Amer. Jour. Phys.* .....AMERICAN JOURNAL OF PHYSICS
*An. Amer. Acad. Pol. Soc. Sci.*..ANNALS OF THE AMERICAN ACADEMY OF POLITICAL AND SOCIAL SCIENCES
*Broad. Eng. Jour.* .....BROADCAST ENGINEERS JOURNAL
*Elec. Eng.* .....ELECTRICAL ENGINEERING (TRANSACTION A.I.E.E.)
*Electronic Ind.* .....ELECTRONIC INDUSTRIES
*FM and Tele.* .....FM AND TELEVISION
*Ind. Eng. Chem.* .....INDUSTRIAL AND ENGINEERING CHEMISTRY
*Ind. Standard* .....INDUSTRIAL STANDARDIZATION (AMERICAN STANDARDS ASSOCIATION JOURNAL)
*Inter. Project* .....INTERNATIONAL PROJECTIONIST
*Jour. Acous. Soc. Amer.*.....JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA
*Jour. Appl. Phys.* .....JOURNAL OF APPLIED PHYSICS
*Jour. Amer. Ceramic Soc.* .....JOURNAL OF THE AMERICAN CERAMIC SOCIETY
*Jour. Bacteriology* .....JOURNAL OF BACTERIOLOGY
*Jour. Chem. Phys.* .....JOURNAL OF CHEMICAL PHYSICS
*Jour. Eng. Educ.* .....JOURNAL OF ENGINEERING EDUCATION
*Jour. Frank. Inst.* .....JOURNAL OF THE FRANKLIN INSTITUTE
*Jour. Opt. Soc. Amer.* .....JOURNAL OF THE OPTICAL SOCIETY OF AMERICA
*Jour. Soc. Mot. Pic. Eng.* .....JOURNAL OF THE SOCIETY OF MOTION PICTURE ENGINEERS
*Jour. Tele. Soc. (Brit.)* .....JOURNAL OF THE TELEVISION SOCIETY (BRITISH)
*Phys. Rev.* .....PHYSICAL REVIEW
*Princeton Eng.* .....PRINCETON ENGINEER
*Proc. Amer. Phil. Soc.* .....PROCEEDINGS OF THE AMERICAN PHILOSOPHICAL SOCIETY
*Proc. I.R.E.* .....PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS
*Proc. Rad. Club Amer.* .....PROCEEDINGS OF THE RADIO CLUB OF AMERICA
*Product Eng.* .....PRODUCT ENGINEERING
*Project Eng.* .....PROJECTION ENGINEERING
*QST* .....QST (A.R.R.L.)
*Radio and Tele.* .....RADIO AND TELEVISION
*Rad. Appl. Jour.* .....RADIO APPLIANCE JOURNAL
*RCA Rad. Serv. News* .....RCA RADIO SERVICE NEWS
*Rev. Mod. Phys.* .....REVIEWS OF MODERN PHYSICS
*Rev. Sci. Instr.* .....REVIEW OF SCIENTIFIC INSTRUMENTS
*RMA Eng.* .....RMA ENGINEER
*Sci. Monthly* .....SCIENTIFIC MONTHLY
*Teleg. and Teleph. Age* .....TELEGRAPH AND TELEPHONE AGE

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| 1984 | "The Clamp Circuit", C. L. Townsend, *Broad. Eng. Jour.*, Part I (January) | 1947 |
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| 1985 | "Headphone Measurements and Their Interpretation", D. W. Martin and L. J. Anderson, *Jour. Acous. Soc. Amer.* (January) | 1947 |
| 1986 | "The Magnetic Electron Microscope Objective: Contour Phenomena and the Attainment of High Resolving Power", J. Hillier and E. G. Ramberg, *Jour. Appl. Phys.* (January) | 1947 |
| 1987 | "Magnetic Recording", H. E. Roys, *Inter. Project.* (January) | 1947 |
| 1988 | "Magnetic Throat Microphones of High Sensitivity", D. W. Martin, *Jour. Acous. Soc. Amer.* (January) | 1947 |
| 1989 | "Military Television", George M. K. Baker, TELEVISION, Volume IV (January) | 1947 |
| 1990 | "Multi-Channel Radiotelephone for Inland Waterways", G. G. Bradley, *Tele-Tech* (January) | 1947 |
| 1991 | "The Outlook for Television—1941", A. F. Van Dyck, TELEVISION, Volume III (January) | 1947 |
| 1992 | "The Progress of Television, 1938-1941", A. N. Goldsmith, TELEVISION, Volume III (January) | 1947 |
| 1993 | "The RCA 70-C1 Transcription Turntable", *NBC Eng. Notice (Recording) No. 37*, National Broadcasting Co., Inc., New York, N. Y. (January) | 1947 |
| 1994 | "The Significance of Bikini", A. F. Van Dyck (coauthor), *Elec. Eng.* (January) | 1947 |
| 1995 | TELEVISION, Volume III (1938-1941), RCA REVIEW, RCA Laboratories Division, Princeton, N. J. (January) | 1947 |
| 1996 | TELEVISION, Volume IV (1942-1946), RCA REVIEW, RCA Laboratories Division, Princeton, N. J. (January) | 1947 |
| 1997 | "Television—A Review, 1946", E. W. Engstrom, TELEVISION, Volume IV (January) | 1947 |
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| 1999 | "Television Today and Its Problems—1946", A. N. Goldsmith, TELEVISION, Volume IV (January) | 1947 |
| | *Inter. Project.* (May) | 1947 |
| 2000 | "Testing Audio Amplifiers with Square Waves", K. A. Simons, *RCA Rad. Serv. News* (January-February) | 1947 |
| 2001 | "Audio-Noise Reduction System", H. F. Olson, *RCA Licensee Bulletin LB-696* (January 15) | 1947 |
| 2002 | "Automatic Frequency-Phase Control in TV Receivers", A. Wright, *Tele-Tech* (February) | 1947 |
| 2003 | "A De Luxe Film Recording Machine", M. E. Collins, *Jour. Soc. Mot. Pic. Eng.* (February) | 1947 |
| 2004 | "Design of Recording Studios for Speech and Music", G. M. Nixon, and J. Volkmann, *Tele-Tech* (February) | 1947 |
| 2005 | "Film Projectors for Television", R. V. Little, Jr., *Jour. Soc. Mot. Pic. Eng.* (February) | 1947 |
| 2006 | "Input Circuit Noise Calculations for F-M and Television Receivers", W. J. Stolze, *Communications* (February) | 1947 |
| 2007 | "International Plan for Air Navigation", D. H. Pain, *Electronics* (February) | 1947 |

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| 2008 | "Radio's Contribution to International Understanding", David Sarnoff, Editorial, *Proc. I.R.E.* (February) | 1947 |
| 2009 | RCA TECHNICAL PAPERS (1919-1945)—INDEX, Volume I, RCA REVIEW, RCA Laboratories Division, Princeton, N. J. (February) | 1947 |
| 2010 | "Science at New Altitudes", David Sarnoff, Pamphlet, RCA Department of Information, New York, N. Y. (February 11) | 1947 |
| 2011 | "Test Equipment for Theatre Servicing", E. Stanko and P. B. Smith, *Inter. Project.* (February) | 1947 |
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| 2015 | "A Coaxial-Line Diode Noise Source for U-H-F", H. Johnson, *RCA REVIEW* (March) | 1947 |
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| 2022 | "The Maximum Efficiency of Reflex-Klystron Oscillators", E. G. Linder and R. L. Sproull, *Proc. I.R.E.* (March) | 1947 |
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| 2026 | "The Present Status and Future Possibilities of the Electron Microscope", J. Hillier, *RCA REVIEW* (March) | 1947 |
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| 2034 | THEORY AND APPLICATION OF RADIO-FREQUENCY HEATING, G. H. Brown, C. N. Hoyler and R. A. Bierwirth, D. Van Nostrand Company, Inc., New York, N. Y. (March) | 1947 |
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| 2036 | "Television R-F Tuners", R. F. Romero, *RCA Licensee Bulletin LB-697* (March 17) | 1947 |

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| 2038 | "Cathode-Ray Unit Speeds Industrial Applications", P. A. Greenmeyer, *Electronic Ind.* (April) | 1947 |
| 2039 | "Comparator for Coaxial Line Adjustments", O. M. Woodward, Jr., *Electronics* (April) | 1947 |
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| 2042 | "Teleran", D. H. Ewing and R. W. K. Smith, *Airways Radio Journal* (April and June) | 1947 |
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| 2047 | "The Mechanism of the Luminescence of Solids", F. E. Williams (Coauthor), *Jour. Chem. Phys.* (May) | 1947 |
| 2048 | "A Review of Criteria for Broadcast Studio Design", H. M. Gurin and G. M. Nixon, *Jour. Acous. Soc. Amer.* (May) | 1947 |
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| 2052 | "Dipole Antennas for Television Reception", O. M. Woodward, Jr. and W. J. Stolze, *RCA Licensee Bulletin LB-712* (May 12) | 1947 |
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| 2055 | "An Analysis of Modern Antennas for FM and Television Reception", M. Kaufman, *RCA Rad. Serv. News* (June-July) | 1947 |
| 2056 | "The AN/ART-13 Radio Transmitter — Characteristics and Tests", *NBC Eng. Notice (Apparatus) No. 33*, National Broadcasting Co., Inc., New York, N. Y. (June) | 1947 |
| 2057 | "Circularly-Polarized Omnidirectional Antenna", G. H. Brown and O. M. Woodward, Jr., *RCA REVIEW* (June) | 1947 |
| 2058 | "Coaxial Tantalum Cylinder Cathode for Continuous-Wave Magnetrons", R. L. Jepsen, *RCA REVIEW* (June) | 1947 |
| 2059 | "Continuous Soldering of Small Motor Rotors Using High-Frequency Heat", W. L. Tesch and P. A. Greenmeyer, *Materials and Methods* (June) | 1947 |
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| 2061 | "Edge Gluing Economy and Equipment—A Tentative Analysis", E. S. Winlund, *Wood Products* (June and July) | 1947 |
| 2062 | "Explanation of the Ratio Detector as an Aid in FM Servicing —Part II", J. A. Cornell, *RCA Rad. Serv. News* (June-July) | 1947 |

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| 2070 | "A Non-Directional Antenna for Mobile Field Strength Measurement in the FM Band", B. W. Robins, *Broadcast News* (June) | 1947 |
| 2071 | "Phase-Front Plotter for Centimeter Waves", H. Iams, *RCA REVIEW* (June) | 1947 |
| 2072 | "Precision Device for Measurement of Pulse Width and Pulse Slope", H. L. Morrison, *RCA REVIEW* (June) | 1947 |
| 2073 | "Radar for Merchant Marine Service", F. E. Spaulding, Jr., *RCA REVIEW* (June) | 1947 |
| 2074 | "Radiation Angle Variations from Ionosphere Measurements", H. E. Hallborg and S. Goldman, *RCA REVIEW* (June) | 1947 |
| 2075 | "Radio—Frequency vs. Utility", E. A. Laport, *Electronics Buyers' Guide* (June, Mid-month) | 1947 |
| 2076 | "The Radio Mike", J. L. Hathaway and R. Kennedy, *RCA REVIEW* (June) | 1947 |
| 2077 | "The Ratio Detector", S. W. Seeley and J. Avins, *RCA REVIEW* (June) | 1947 |
| 2078 | "Stabilized Magnetron for Beacon Sservice", J. S. Donal, Jr., C. L. Cuccia, B. B. Brown, C. P. Vogel and W. J. Dodds, *RCA REVIEW* (June) | 1947 |
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| 2081 | "Single Crystal Electron Diffraction by Micro-Crystalline Materials", N. Davidson and J. Hillier, *Jour. Appl. Phys.* (June) | 1947 |
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| 2084 | "Compensation of Frequency Drift", W. A. Harris and D. P. Heacock, *RCA Licensee Bulletin LB-715* (June 12) | 1947 |
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| 2088 | "A Precision Device for Television Pulse Width and Slope Measurement", H. L. Morrison, *RCA Licensee Bulletin LB-717* (June 20) | 1947 |
| 2089 | "Projection Screens for Home Television Receivers", R. R. Law and I. G. Maloff, *RCA Licensee Bulletin LB-718* (June 25) | 1947 |
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| 2092 | "A Frequency-Modulated Magnetron for Super-High Frequencies", G. R. Kilgore, C. I. Shulman, and J. Kurshan, *Proc. I.R.E.* (July) | 1947 |
| 2093 | "Frequency Modulation and Control by Electron Beams", L. P. Smith and C. I. Shulman, *Proc. I.R.E.* (July) | 1947 |
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| 2095 | "Generalized Theory of Multitone Amplitude and Frequency Modulation", L. J. Giacoletto, *Proc. I.R.E.* (July) | 1947 |
| 2096 | "Low-Voltage Regulated Power Supplies", F. W. Smith, Jr. and M. C. Thienpont, *Communications* (July) | 1947 |
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| 2100 | "Science Reaches Upward", David Sarnoff, *Sci. Amer.* (July) | 1947 |
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| 2104 | "Television: Threshold of New Opportunities", David Sarnoff, *Rad. Appl. Jour.* (July) | 1947 |
| 2105 | "Triplex Antenna for Television and F-M", L. J. Wolf, *Electronics* (July) | 1947 |
| 2106 | "A 1-Kilowatt Frequency-Modulated Magnetron for 900 Megacycles", J. S. Donal, Jr., R. R. Bush, C. L. Cuccia, and H. R. Hegbar, *Proc. I.R.E.* (July) | 1947 |
| 2107 | "Multi-Band Permeability Tuning System", W. L. Carlson, *RCA Licensee Bulletin LB-721* (July 30) | 1947 |
| 2108 | "Curing Interference to Television Reception", M. Seybold, *QST* (August) | 1947 |
| 2109 | "An Electronic Multicircuit Breaker", G. D. Hanchett, Jr., *QST* (August) | 1947 |
| 2110 | "External Cross Modulation—Its Cause and Cure", D. E. Foster, *RCA Rad. Serv. News* (August-September) | 1947 |
| 2111 | "The NBC ND-310 Receiver", *NBC Eng. Notice (Apparatus) No. 29*, National Broadcasting Co. Inc., New York, N. Y. (August) | 1947 |
| 2112 | "Pulsed Rectifiers for Television Receivers", I. G. Maloff, *Electronics* (August) | 1947 |
| 2113 | "RCA's New Dual Track, Multi-Frequency 35-mm Transmission Test Film", E. Stanko, *Inter. Project.* (August) | 1947 |
| 2114 | "Relation of the Engineering Profession to World Affairs", C. B. Jolliffe, *Proc. I.R.E.* (August) | 1947 |
| 2115 | "Service to the Radio Industry", pamphlet, RCA Industry Service Laboratory, New York, N. Y. (August) | 1947 |
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| 2117 | "The Use of Wave Traps as a Remedy for Interference in Video Reception", *RCA Rad. Serv. News* (August-September) | 1947 |
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| 2120 | ARCHITECT'S MANUAL ON SOUND EQUIPMENT FOR PLANTS AND BUILDINGS, Engineering Products Department, RCA Victor Division, Camden, N. J. (September) | 1947 |
| 2121 | "Beam-Deflection Control for Amplifier Tubes", G. R. Kilgore, *RCA REVIEW* (September) | 1947 |
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*ERRATA SHEET*

# RCA TECHNICAL PAPERS (1919-1945) INDEX, Volume I

*(Remove this page and insert in Volume I opposite page —iii—)*

**Add the following note at the bottom of the "Foreword" page:**

"NOTE: *RCA Licensee Bulletins* are not published and are issued only as a service to licensees of the Radio Corporation of America."

* * *

**Notations concerning the following items may be made on applicable pages as indicated by date, author, and subject matter.**

386a "An Experimental Television System—Introduction", E. W. Engstrom, *Proc. I.R.E.* (November) ..... 1934
1243a "Application of the Abelian Finite Group Theory to Electromagnetic Refraction", K. A. Whiteman, *RCA REVIEW* (January)..... 1940
1247a "I-F Selectivity in Receivers for Commercial Radio Services", J. B. Moore and H. A. Moore, *RCA REVIEW* (January) ..... 1940
1249a "The Service Range of Frequency Modulation", M. G. Crosby, *RCA REVIEW* (January) ..... 1940
1254a "Vision of Future Developments", David Sarnoff, *RCA REVIEW* (January) ..... 1940
1275a "Design of Superheterodyne Intermediate-Frequency Circuits", F. E. Spaulding, Jr., *RCA REVIEW* (April) ..... 1940
1277a "The Limits of Inherent Frequency Stability", W. Van B. Roberts, *RCA REVIEW* (April) ..... 1940
1279a "A Method of Measuring Frequency Deviation", M. G. Crosby, *RCA REVIEW* (April) ..... 1940
1305a "Demonstrating Broadcasting Facsimile at the New York World's Fair", A. J. Baracket, *RCA REVIEW* (July) ..... 1940
1314a "Reactance Tube Frequency Modulators", M. G. Crosby, *QST* (June). 1940
*RCA REVIEW* (July) ..... 1940
1316a "Space-Charge Limitations on the Focus of Electron Beams", B. J. Thompson and L. B. Headrick, *Proc. I.R.E.* (July) ..... 1940
1332a "A New Electron Microscope", L. Morton, M. C. Banca, and J. F. Bender, *RCA REVIEW* (October) ..... 1940
1334a "SS 'America' Radio Installation", I. F. Byrnes, *RCA REVIEW* (October) ..... 1940
1358a "An Analysis of Constant-K Low- and High-Pass Filters", O. S. Meixell, *RCA REVIEW* (January) ..... 1941
1362a "Band Width and Readability in Frequency Modulation", M. G. Crosby, *RCA REVIEW* (January) ..... 1941
1365a "A New High Quality Soundhead", R. H. Heacock, *RCA REVIEW* (January) ..... 1941
1367a "Stable Power Supplies for Electron Microscope", A. W. Vance, *RCA REVIEW* (January) ..... 1941
1420a "A New Era in Television", David Sarnoff, *RCA REVIEW* (July)..... 1941
1421a "NBC Short-Wave Listening Post", G. O. Milne, *RCA REVIEW* (July) 1941
1451a "A Two-Side Non-Turnover Automatic Record Changer", B. R. Carson, *RCA REVIEW* (October) ..... 1941
1488a "A Discussion of Several Factors Contributing to Good Recording", R. A. Lynn, *RCA REVIEW* (April) ..... 1942
1490a "Low-Frequency Characteristics of the Coupling Circuits of Single and Multi-Stage Video Amplifiers", H. L. Donley and D. W. Epstein, *RCA REVIEW* (April) ..... 1942
1494a "Wartime Engineering", A. N. Goldsmith, *RCA REVIEW* (April).... 1942
1547a "Radio, Music, and the Future", T. H. Belviso, pamphlet, National Broadcasting Company, Inc., New York, N. Y. (April)..... 1943

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**Additional publication data may be inserted for the following items:**

1123 *RCA REVIEW* (July) ..... 1940
1277 *RCA REVIEW* (July) ..... 1940
1397 *RCA REVIEW* (July) ..... 1941

* * *

**Corrections on the following items may be made as indicated:**
403 and 1151 Add "and H. F. Olson", and delete "(coauthor)".



12/31/47

Cut along this line — Insert in INDEX, Volume I

*ERRATA SHEET*

# RCA TECHNICAL PAPERS (1946)
# INDEX, Volume II (a)

*(Remove this page and insert in Volume II(a) opposite page — iii —)*

**Add the following note at the bottom of the "Foreword" page:**

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**Change "1946" to "1947" at bottom of the "Foreword" page.**

* * *

**Notations concerning the following items may be made on applicable pages as indicated by date, author, and subject matter.**

61a "Freedom to Listen", David Sarnoff, pamphlet, RCA Dept. of Information, New York, N. Y. (April 4) ..... 1946

71a "Electronic Heating in the Furniture Industry", E. S. Winlund, *Electronics* (May) ..... 1946

164a "The Mounting of Bacteria for Electron Microscope Examination", J. Hillier and R. F. Baker, *Jour. Bacteriology* (October) ..... 1946

173a "Electron Microscopy", J. Hillier, *Jour. Amer. Ceramic Soc.* (November 15) ..... 1946

203 "Production of Musical Programs", E. L. Dunham, Section of MUSIC IN RADIO BROADCASTING (Ed. Chase) McGraw-Hill, New York, N. Y. ..... 1946

204 "Theory and Design of Several Types of Wave Selectors", N. I. Korman, *Proc. Nat'l. Elec. Conf.* ..... 1946

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**Additional publication data may be inserted for the following items:**

166 *Proc. Nat'l. Elec. Conf.* ..... 1946

177 *Proc. Nat'l. Elec. Conf.* ..... 1946

178 *Proc. Nat'l. Elec. Conf.* ..... 1946

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**Corrections on the following item may be made as indicated:**

131 Should read H. *C.* Lawrence—not H. *L.* (on pages 5 and 8). Under "Lawrence, W. L.", on page 18, delete "131"; add "Lawrence, H. C., 131."



Cut along this line — Insert in INDEX, Volume II(a)

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